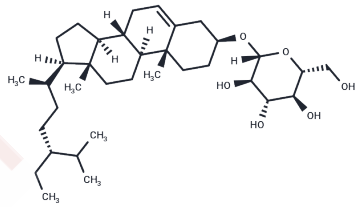
Data Sheet (Cat.No.T3871)

TargetMol

Daucosterol

Chemical Properties



CAS No. : 474-58-8

Formula: C35H60O6

Molecular Weight: 576.85

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Daucosterol (Sitogluside) has proliferation-enhancing activity, may be involved in the IGF1-AKT pathway. Daucosterol(β-Sitosterol β-D-glucoside) has efficient and inexpensive neuroprotectant effect, to contribute to IGF1-like activity, could be potentially developed as a medicine for ischemic stroke treatment.
Targets(IC50)	Glucosidase

Solubility Information

Solubility	DMSO: 2.5 mg/mL (4.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7336 mL	8.6678 mL	17.3355 mL
5 mM	0.3467 mL	1.7336 mL	3.4671 mL
10 mM	0.1734 mL	0.8668 mL	1.7336 mL
50 mM	0.0347 mL	0.1734 mL	0.3467 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Jiang LH,et al. Daucosterol promotes the proliferation of neural stem cells. J Steroid Biochem Mol Biol. 2014 Mar; 140:90-9.

Jiang LH,et al. Daucosterol protects neurons against oxygen-glucose deprivation/reperfusion-mediated injury by activating IGF1 signaling pathway. J Steroid Biochem Mol Biol. 2015 Aug;152:45-52.

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